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Election/Restriction

Applicants affirm the provisional election of Group I, claim 1 and the election of the species of Example 1, compound 1 on page 16 of the Specification for search purposes.

Rejection under 35 USC §112 - first paragraph

Claim 1 is rejected under 35 USC §112 - first paragraph because the specification: “...while being enabling for certain compounds, does not reasonably provide enablement for all the compounds as claimed.” The Office Action states that the factors to be considered indetermining whether a disclosure meets the enablement requirement of 35 USC §112 - first paragraph have been described in *In re Wands*, 8 USPQ2nd 1400 (Fed. Cir. 1988) and that the instant application fails to meet a number of those factors, specifically (2) there is a lack of predictability in the art citing *In re Marzocchi*, 439 F.2d 220, 223-24, 169 USPQ 67, 69-70 (CCPA 1971), (3) the claims are very broad, (4) the amount of direction presented, (5) presence or absence of working examples, and (6)quantity of experimentation necessary.

Applicants contend that each of these factors, in fact, have been met by the disclosure of the instant application. Specifically:

(2) Predictability - It is known within the art surrounding cyclopropene compounds that certain of them may have ethylene inhibition activity when contacted with plants or plant products. Many of these effects are documented in the references cited in applicant's Information Disclosure Statements. What was not known from those prior disclosures was the breadth of substituent groups which would provide the cyclopropene compounds with this activity. Applicants have discovered that the scope of active compounds goes far beyond those disclosed in the cited references. Applicants have shown through the eighty-six example compounds tested that a wide variety of compounds with widely varying substituents are active. These example compounds support the fact that within classes of substituent groups one skilled in the art can predict that certain compounds which are members of those classes will be active. Applicants are not required to present any examples at all, and the C.C.P.A. has stated that the claims may be supported “either by the use of illustrative examples or by broad terminology.” *In re Marzocchi*, 439 F.2d at 223. Applicants respectfully submit that the teachings of their application provide the required support for the claims.

(3) Breadth of Claims - Admittedly, the claims of the instant application are broad. However, Applicants have provided a large number of example compounds (eighty-six) which: “...differ

radically in their properties..." and which are demonstrated in the test results in Table 3, pp 70-72 of the PCT equivalent (WO2002068367) to "accomplish the desired result."

(4) Amount of Direction or Guidance Presented - The Office Action states that there is no guidance or direction presented to enable one skilled in the art to make any one of the thousands of cyclopropene compounds as claimed. However, there are fifty-six working example compounds and an additional thirty which are described. Extensive methods of synthesis are provided on pp 16-64 of the PCT equivalent. With the information provided, one skilled in the art of organic synthesis would be able to develop specific methods to synthesize any one of the claimed compounds without undue experimentation.

(5) Presence or Absence of Working Examples - The Office Action states that there are no examples presented to enable one skilled in the art to make any one of the thousands of cyclopropene compounds as claimed. As noted above, there are presented in the specification a reasonable number of working examples and references to a large number of synthesis methods. These are sufficient to enable one skilled in the art to synthesize the claimed compounds.

(6) The Quantity of Experimentation Necessary - The Office Action states that there is no guidance and/or direction provided by the Applicants for the wide variety of compounds and their preparation and method of use. However, as noted above, eighty-six example compounds are provided with the results of their use. These data are presented in the synthesis examples (pp 16-64 of the PCT equivalent and the test data presented on pp 69-72 of the PCT equivalent. The Office Action does not present facts to support the assertion that "undue experimentation" would be required to practice the present invention. Rejection of claims as being non-enabled requires "the Patent Office, whenever a rejection on this basis is made, to explain why it doubts the truth or accuracy of any statement in a supporting disclosure and to back up assertions of its own with acceptable evidence or reasoning" refuting the asserted teaching of the invention. *In re Marzocchi*, 439 F.2d 220, 224 (C.C.P.A. 1971). The Office has not met its burden to provide such evidence or reasoning. "However, specific technical reasons are always required." M.P.E.P. § 2164.04. The rejection merely states that there are not "sufficient working examples" to support the claims. However, Applicants are not required to present any examples at all, and the C.C.P.A. has stated that the claims may be supported "either by the use of illustrative examples or by broad terminology." *In re Marzocchi*, 439 F.2d at 223. Applicants respectfully submit that the teachings of their application provide the required support for the claims. The mere assertion that there is not "a sufficient number of compounds to support the relatively broad claims" has been rejected previously by the Board of Patent Appeals and Interferences, which

reversed such an enablement rejection as "not supported by evidence, facts or sound scientific reasoning." *Ex parte Reese*, 40 U.S.P.Q.2d 1221 (B.P.A.I. 1996).

Rejection under 35 USC § 102(b)

Claim 1 is rejected under 35 USC § 102(b) as being anticipated by Kostanek, U. S. Patent No. 6,548,448 ("Kostanek").

Kostanek was filed on February 26, 2002 with a priority date of February 26, 2001. As noted above, the instant application is a national filing of PCT patent publication WO 02/068367 (PCT/US02/06339). The application claims priority to three US provisional applications; 60/271,588, 60/271,590, and 60/271,591 all filed on February 26, 2001. Thus, Kostanek is not a valid 35 USC § 102(b) reference.

Double Patenting - First Rejection (Kostanek)

Claim 1 is rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over Kostanek, U.S. 6,548,448 in that the instant compounds are taught by the prior art..

Again, Applicants respectfully submit that Kostanek is not valid prior art against the instant application. In addition, the claims are patentably distinct. Applicants are claiming certain compounds and methods of use. Kostanek claims a specific type of delivery system for cyclopropene compounds which comprises a combination of the cyclopropene compounds and packaging materials. Thus, Kostanek's invention is patentably distinct from Applicants' invention.

Double Patenting - Second Rejection (Lamola et al)

Claim 1 is rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 7-10 Lamola et al, U.S. 6,770,600 ("Lamola") in that the instant compounds are taught by the prior art.

Again, Applicants respectfully submit that Lamola is not valid prior art against the instant application. Lamola was filed on February 28, 2003 with a priority date of February 27, 2002. Applicants' priority date is a year earlier. In addition, the claims of Applicants' invention are patentably distinct from those of Lamola. Applicants are claiming certain compounds and methods of use. Lamola claims a specific type of delivery system for cyclopropene compounds which comprises a combination of the cyclopropene compounds and a substrate coated with a composition comprising the cyclopropene which, when exposed to a release agent generates a free cyclopropene. Thus, Lamola's invention is patentably distinct from Applicants' invention.

With this response, Applicants believe that the rejections have been overcome and the claims are in condition for allowance. Should the Examiner have any suggestions which may put the Application in better condition for allowance, Applicants' attorney is willing to discuss any such suggestions either by phone or at the U. S. Patent and Trademark Office.

Respectfully submitted,

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